FINAL YEAR PROJECT ONLINE PRESENTATION CREATOR AND UPLOADER

by

Nur Nadiah Bt Mazlan

Dissertation submitted in partial fulfilment of
the requirements for the
Bachelor of Technology (Hons)
(Business Information System)

SEPTEMBER 2012

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CERTIFICATION OF APPROVAL

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Approved by,

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(Mr Faizal b. Ahmad Fadzil)

UNIVERSITI TEKNOLOGI PETRONAS
TRONOH, PERAK
September 2012

CERTIFICATION OF ORIGINALITY

This is to certify that I am responsible for the work submitted in this project, that the original work is my own except as specified in the reference and acknowledgements, and that the original work contained herein has not been undertaken or done by unspecified sources or persons.

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(NUR NADIAH BT MAZLAN)

ACKNOWLEDGEMENT

In the name of Allah, the Most Gracious, the Most Merciful. Praise to Him the Almighty that His blessing and guidance in giving me strength, courage, patience, and perseverance to endure this Final Year Project.

My final year project accomplishment relied on many people's contribution and their assistance. It is my pleasure to acknowledge them with gratitude of the insights and excellent contributions. First and foremost, I would like to convey my highest gratitude to my Final Year Project Supervisor; Mr Faizal b. Ahmad Fadzil who has always encouraged me through out this academic program and for his patiently guided me and continuous support that kept me moving to complete this research project.

Finally, I would like to thank to my very own Universiti Teknologi PETRONAS for the facilities and consumables given to me. I would also like to thanks my friends especially Norhiqmah, Aisyah Naemah and others for their kindness and patients in helping me completing my final year project. Last but not least, to my beloved family who have been giving me inspiration and give encouragement throughout this final year project.

ABSTRACT

The Final Year Online Presentation Creator and Uploader system is a project that will help to ease final year students in creating and preparing their presentations slides. This system will be a web based system that can be log in anywhere at anytime. Each student will need to registers their log in id or username and password for first time usage. This system is created due to few problems that occur during the previous final year students' presentation preparations. They might overlook the unnecessary content and left out the important ones. With the system, it will help them to be more prepared and boost out their confident level indirectly because the system has provide guidelines to be followed.

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LIST OF ABBREVIATIONS

FYP	Final Year Project
OPCAU	Online Presentation Creator and Uploader
UTP	Universiti Teknologi PETRONAS
VB.net	Microsoft Visual Studio – Visual Basic
GUI	Graphical User Interface
URL	Uniform Resource Locator

CHAPTER 1

INTRODUCTION

1.1 Project Background

During presentation, people tend to make mistakes especially students. They seem to present either too much information or less. They usually forgot the more important facts or information and end up focusing on the less useful information. These will cause presentation will be less efficient and boring. With the system which is the Final Year Project (FYP) Online Presentation Creator and Uploader, it could help students to prepare and will present and efficient and effective slides. FYP Online Presentation Creator and Uploader is actually a web based system that will ease FYP students during preparation period. This will also help more on organizing the presentations submission by the students and help students to be prepared.

There are two main functions in the system which is the presentation creator and also the presentation uploader. The presentation creator is where FYP students can create their presentation slides based on the guidelines given. The guidelines are basically the requirements of each part of presentations that will give clearer understanding for students. A view function is added for students to view their presentations after they done creating the presentations. The presentation uploader is where FYP students can upload their presentation slides using their login id into the server and they can open it during the presentation. The system also will provide delete and update functions.

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1.2 Problem Statements

Most of FYP Students in Universiti Teknologi Petronas (UTP) have problem to create effective and efficient Power Point Presentation for their oral presentation to the examiners which means both external and internal examiners. The problem can be details as follows:

1. Lack of understanding of the standard of FYP presentation formats which causing them to lose a lot of marks.
2. Information redundant and giving unnecessary information and details.
3. Last minutes preparation contributes to potential of errors and confusion.

1.3 Objectives

OPCAU are designed to meet several objectives outlined below:

1. To create a standardized template for FYP presentations.
2. To provide guidelines in preparing slides.
3. To have an organized presentation uploader for FYP students

1.4 Scope of Study

The system focus is on the development of a web-based system for presentation creator and simple upload functions for FYP 1 and FYP 2 student. It will help and ease the student in creating a better presentation slides for their projects. The author will be focusing on developing system online and its availability of the function creating presentation slides and uploaded file for the FYP student in UTP. The next importance action is the knowledge acquisition for developing the knowledge base and inference methods to assume the suitable solutions. In addition, the scope of the project will evolve around the learning of the system development which is VB.net and MySQL.

This shows that the creation of database a necessary for some user interfaces. This project will be the initial system developed to managed FYP presentation creator and uploader. So, only several functions has been covered which are :

I) Creating a presentation slides

The users can create the slides based on the standardized templates that have been provided by the developer. User can insert the important and useable information based on the guidelines given.

II) View created presentation slides

The created presentation will be able to be viewed. Changes can be made on the creating functions. Each slides created will be remain in the system until being deleted.

III) Upload presentation slides

A simple uploader provided for the user to upload their files as back up. The files will remain in the system until deleted.

IV) Insert and saving new data

This function is applicable for both user and system administrator. In this function, first time user need to register in order to login to the system. As for administrator, it can update the user profile on the system or deleted not useful data inside the database.

V) User verification –security

User verification consists of username and password. Each user has unique username and passwords. In order to login into the system, user needs to insert their username and password correctly. Different level of user can access a different level of application.

Basically, the main functions describe above given the image of this OPCAU system. However, the system cannot allow user to edit the complete presentation slides but there will be an additional features depends on the developments of the system.

1.5 Feasibility of the Project

The OPCAU will be done in two semesters in order to fulfill FYP I and FYP II courses. The author has fully understanding of the study given its relation to business information background an aware of the challenges that will be faces onward. The author also will rely on previous findings and journals as reference throughout the study. As it includes basic knowledge of Microsoft Visual Basic (VB.net) and also some of the internet programming as it is a web based system. Based on the description above, it is very clear that this project will be feasible to be carried out within the time frame.

CHAPTER 2

LITERATURE REVIEW

2.1 Presentation: Definition and Concept

The usage of Power Point is very common presentation tools to people around the world. Power Point is very popular tools among people who give presentations, it can help created visual aids that will help get the message across to an audience, whatever the message are and in what format are they will be presented (Wempen, 2004).

Even though power point presentation is very common tools for everyone, still there are mistakes made by the people that involve in presentations. These are the common mistakes lists that always occurs which are choosing electrifying font and background colors, poorly chosen templates and design, too much information inserted that will eventually increase the numbers of slides (Russell). These also be supported with several other mistakes which are text size are no suitable and sometimes too much text in one slides (Cora, 2010).

However, there is ways to avoid and improve the presentations thus can be used and implement by all either students or staff. People should focus on the designing the presentations, includes images related to the topic that are being presented and suitable font size and colors. All these will help to attract audiences and made your presentations interesting (Sieber, 2009).

The other way to create powerful presentations is by listing the outlines of the topic being presented, double check on the grammar and spelling, and again, less text in on slides, must includes charts and diagrams for better understanding and related to the topics (Brown, 2006). As for the system being develop, the guidelines and templates are given will be related to the FYP UTP guidelines, so that FYP students can produce a powerful power point presentations thus help them to boost up their confidence levels.

2.2 Online File Storage Service: Definition and Concepts

The system (OPCAU) is almost similar to a file hosting services provided online because it will be an online application that can help student to access their slides or presentations anytime anywhere. File hosting service can be defined as a services designed exclusively for users to store their data in the network or internet. This service are not specifically for only one user at the time and can be retrieve the data needed using FTP or HTTP with just one click and the service is often free. This will ease them in accessing the file whenever and wherever they need them (J.Cory, 2010).

Some of the well known services providers for online file storage or web hosting for free describe by A.Jay (2008, August 28) are File Savr, the file hosting service that use ajax and flash and it is the largest file storage available online that is very flexible. Another one is FileDen, the online storage that made easy to share and upload files online by giving a code which can be embed into users' own websites or social networking for easy downloads and file sharing among friends, family and others. File Droppers is also one of the best online storage because it is simple and with one click, user can upload or download needed files in any formats.

The advantages of using online file storage are known widely by the internet users. The online file storage is mostly provided free by the hosting company but the service is better when user needs to pay for their online storage. Their data will be more secure than the free file storage services. The online file storage also very flexible and efficient because the data can be access anytime any where but an internet connection is needed. It also used multiple servers that can help manage multiple uploads and downloads activities at a time. The service is also easy to use and user-friendly. This means the hosting company mostly will provide a user friendly interfaces and self –managed storage. It will save disk space and can instantly have the files needed on any files. Thus, the data or files will be more secured (A.Maheshwari, 2009, January 15). This shows that the system (OPCAU) develop is suitable to all type user especially students. Their slides are more secured because only they can manage and retrieved their presentations slides after they login the system.

2.3 Existing System related to OPCAU

There are several online services has provided an online presentation creator. Most of service providers are providing free services but need to register in order to use their services. The user login is usually for security purposes and database maintenance purposes. Each of the web site that providing online presentation creator has unique way in creating the presentation slides.

One of the examples for online presentation creator services is Prezi.com. As defined by Curtin (September, 2012), Prezi is a cloud base presentation software that included with zooming functions to enable user to zoom in and out on the virtual canvas. Prezi is also different from typical presentation creator. This is because it has more interactive and interesting functions that will attract viewer. The advantage of this online presentation creator is it has zooming functions and allow user to be creative in creating a presentation slides. He also stated that the disadvantages are this type of presentation is not suitable for professional presentation. It also not available in offline and it is based on flash player which very basic web format.

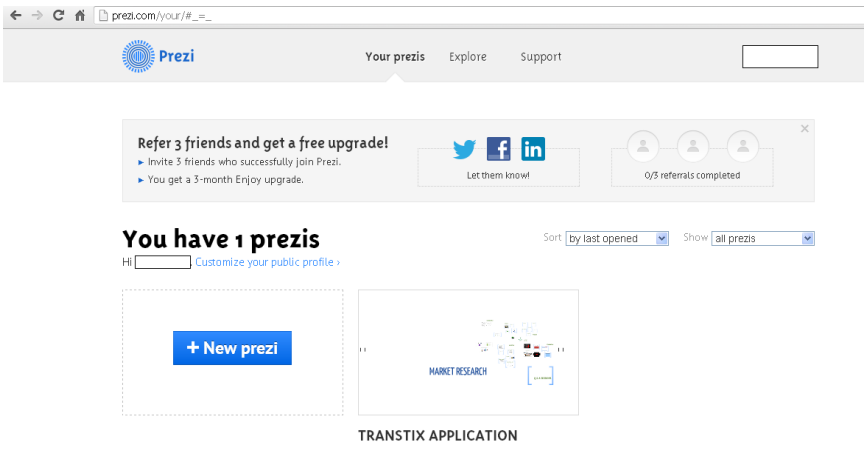

Figure 1 : Prezi.com

CHAPTER 3

METHODOLOGY

3.1 System Methodology

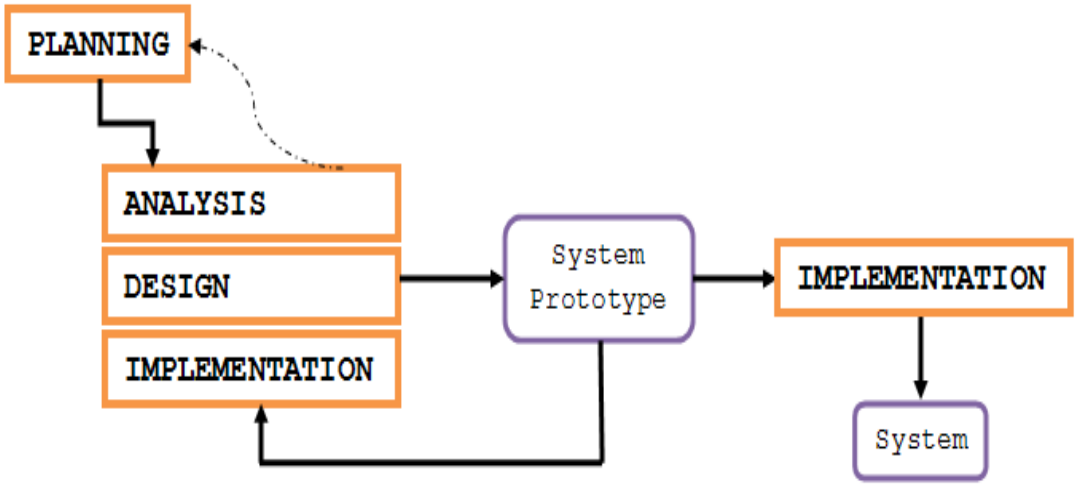

Figure 2 : Throwaway Prototyping Methodology

The above figure shows the Throwaway Prototyping that falls under RAD Prototyping based Methodology. This prototyping method is basically similar to other prototyping which it has four main phase: planning, analysis, design, and implementation. But the difference is where the flow of each phase to the other phases in the System Development Life Cycle (SDLC).

This project will be develop using the throwaway prototyping because of the criteria of the prototyping method suits best. The project will be start from planning phase to the analysis phase, then design phase. Then the project will be proceeding to system prototype and being implementing. In some cases, there are new user requirements; the system will undergo again the designing phase to ensure that the project suits the new requirements. Then again will be implementing and can be use. The User Acceptance Test (UAT) is usually will be done during the first prototype complete and in implementation phase.

The planning phase is usually the project Gantt chart and milestones are being plan. The tools and dateline are being proposed in order to develop the project. Planning phase is important to ensure the project is feasible and have a right platform to develop. As for analysis phase, each related data are gathered and being analyze. The user requirements are also being gather in this phase in will be analyze one by one to make sure that the project can fulfill all the requirements needed by the user.

During the designing phase, system will be design and develop which means the codes are inserted, the interfaces are created. However, the design must fit the requirements given. When the system is done, it is known as a system prototype. Where user will test the system and see if there is any changes need to be made while implement it. After redesign and implement, then only the system is complete and perfect.

The advantages of using the throwaway prototyping based methodology is it will deliver the complete system within a short time period. It is basically suitable for developing a system that has time constraints and less complex requirements. This is because a dummy prototype is easier to build rather than the working prototype. Furthermore, it is also useful for both developer and end-user. The feedback from the user is necessary to avoid misinterpretations before the system is fully developed and complete.

3.2 Project Activities

3.2.1 Initiation/ Initial Phase

The initiation phase begins with developers' identification of the needs by recognizing the relevancy of having a system that could improvise the existing system to make it more reliable and efficient to the end user. The project relevancy is to familiarize with the online presentation creator and uploader. The significant of the project also being recognized which is to ease student and guide them to create a better presentations with complete information and upload their files as backup. A proposal is created containing the problems and objectives that can encounter the problem stated.

3.2.2 Planning Activities

During the planning phase, all the planning documents will be created along the project timeline. The creation of Gantt chart and milestone, mock-up system and the future prototype outcome are included during this phase. The author needs to translate the scope of the project into a practical plan on the way of the project will be completed. The main purpose of having a planning phase is to describe the system functionality in details. As the plan is approved, the system can move to the next phase.

3.2.3 System Analysis

The analysis phase is where the system requirements information is gathered and being documented. The research and literatures reviews related to the system are studied. The sources of information are mostly from journals, books, articles and surfing through internet activities. The main research and learning for this project are the web based implementation (VB.net), web development, database and other related hardware devices.

3.2.4 Designing

Draft of the system interface and algorithms will be identified during this phase. The main functions are also recognized in order to develop the system. Furthermore, part of the system and function will be develop and make sure that interfaces involved are connected to each other. The database development also occurs during this phase and how will the user interfaces will appear to the end user. The site map below shows the main functions for the system.

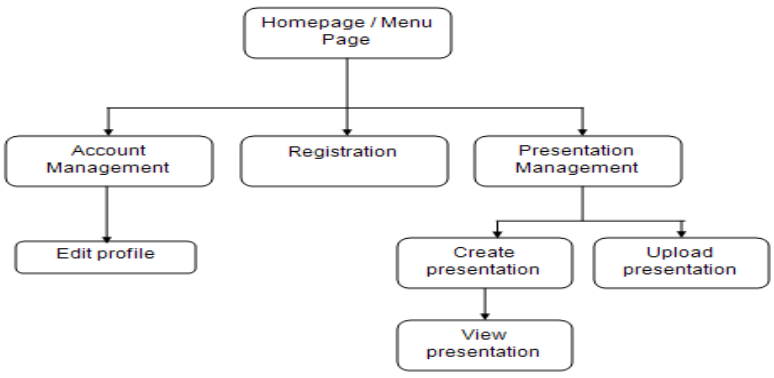

Figure 3 : OPCAU sitemap

3.2.5 The Development

The sub-system and functional part of the system will be developed. This phase will start with creating and building the suitable database for information storage. Then, the interfaces or the system appearance will be developed. This will be followed by inserting the codes and connecting the database with the system. This connection will allow the system to interact with the database for retrieving user input and producing suitable output. The combination of both completed system that is the system has been include the functions and database will create a fully functional system.

3.2.6 System Implementation Phase

A 100% completed constructed system based from the prototype develop and has been undergoes several testing in this phase. The testing is to ensure the system is fulfilling the requirements and bug free. This means, the system will run properly and will produced the desired and suitable results based on the request.

3.3 Gantt Chart and Key Milestone

The project milestones are separated to two parts. The first part took 8 to 14 weeks to complete the project. It includes the interim reports and presentation session of quarter of project completion. For the second part, it took about same duration as part one as it will include the progress report and also presentation session of completed project. Therefore, the development, and design phase were done within the time period as illustrated in the Gantt chart.
(*refer Appendix B and C*)

.3.4 System Basic Flow Chart

The user needs to log in into the system before the functions can be used. First time user need to register their username and password in order for the system to capture their existence in the database. After the administrator has approved their registrations, the student or the user can use all the functions provide. They can view the guidelines for presentation preparations during the creation activities. They can choose directly create the presentation slides into the system. The system also allows users to edit the data or information inserted on create sections and adding slides to insert more information. This will gives opportunity to users to update their slides. Student can also upload their slides in the system. Most important thing, user must remember to save their works before they log out the systems in order to ensure their works or presentations slides are already and remains in the system server. As for view functions in the system, it allows user to view the created slides in the system The view function only applicable for users has created their presentations files or slides in the system.

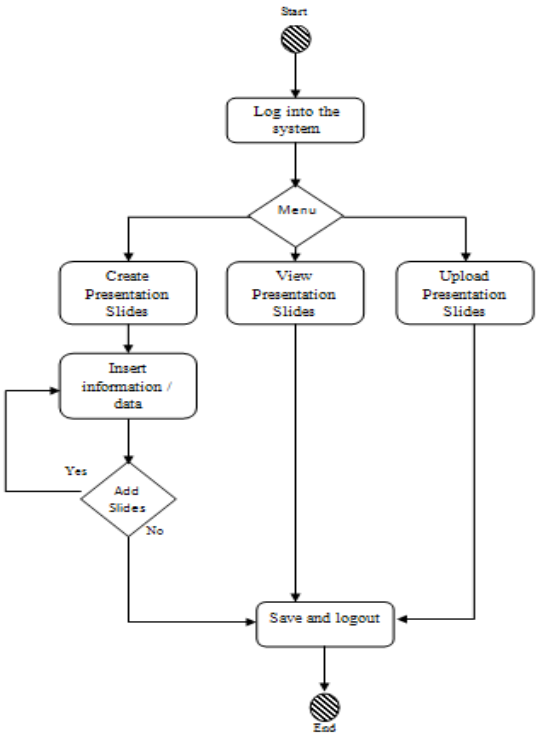

Figure 4: OPCAU Basic Flow Chart

3.5 OPCAU System Architecture

The figures above show OPCAU system architecture that consists of three main modules. They are user, data source, and administrator. For the first module which is the user which includes the FYP students and GUI interfaces. The second module consists of data source that is also known as database. Thirdly, the admin is included in the administrator module. The users will need to registers in order to login into the system and user that has log on to the system can choose to upload slides or to create slides in the system based on the system interfaces. The system based is an ASP.net. So, the system will need to use an internet to make it works.

As for the data source of the system which also a database is place to store the information retrieved from the system. The database will capture the input in several system interfaces such as registration page, update profile page and creating presentation page. User will enter the input and will save in the respective tables in the database. These inputs or information can be retrieved to generate specific output. For example, student will log into the system using GUI interface and the system will search in the database to find the requests. If the username and password matches the data in the database, permission to continue using the system are granted. Another example, when user creating a presentation slides, the request will sent to the system via internet and the input will be stored in the database.

An administrator is usually the one and only person that manage and control the systems. It means, there are some important tasks that users cannot do and admin can in order to protect the system data or the data source from being modified by irresponsible person. This is because admin has the key to access the database anytime and if there is changes are request by the user, admin will help update it for the user. If too many people managing the system, the data might be less secured and being exposed to many problems such as data missing, incomplete, modified without proper notice and many more.

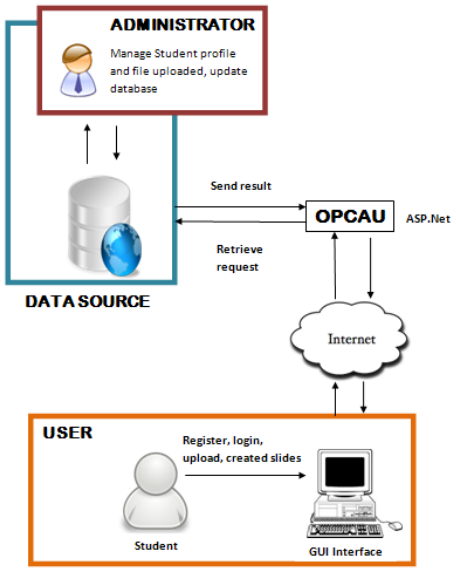

Figure 5: OPCAU System Architecture

3.6 Tools Required

To develop the system, some tools are chosen based on the suitability and end-user requirements. For this system, Microsoft Visual Basic (VB.net) and an internet programming are chosen. Both tools can be related to each others which means, VB.net can be used also for web based application but must added the internet programming language code in the system. Below are list of advantages and disadvantages of VB.net :

Table 1: The advantages and disadvantages of VB.net

Advantages	Disadvantages
Provides a comprehensive interactive and context-sensitive online help system	Programs written in VB.net cannot easily be transferred to other operating system (OS)
The structure is very simple, particularly as to the executable code	Not suitable in array declaration
Easy to complete the Graphical User Interface (GUI) and required less programming and design time	Cannot handle pointers directly
Named indexers support	
Support of legacy keywords	

The other tools that are important are the MySQL. It is used to mainly for database maintenance and some other related functions such as update, delete and edit the data in the database. The advantages for using this tool are it is very flexible because it can support large number of embedded applications in one time. It is also free, fast and reliable open source software for relational database. Furthermore it is very suitable and widely use for web based applications. However, there are also the disadvantages of this open source software which is it does not support very large database efficiently.

CHAPTER 4

RESULT AND DISCUSSIONS

4.1 Data and Requirement Analysis

As stated before, the analysis phase is where the developer will take all the objectives outlined earlier into considerations and this phase is also where the related information are gathered in order to proceed the project. Moreover, the requirements are defined. This means, this is the most crucial part or step in the entire system development.

4.1.1 OPCAU Main Functions

As shown in figures below, this system basically has two (2) main functions which are the account management and presentation management. The account management is where only administrator has access to this function. It will allow administrator to edit the user profile includes deleting the profile based on request and suitability. The other part is the presentation management which involve of creating viewing and uploading the presentations based on the user choices.

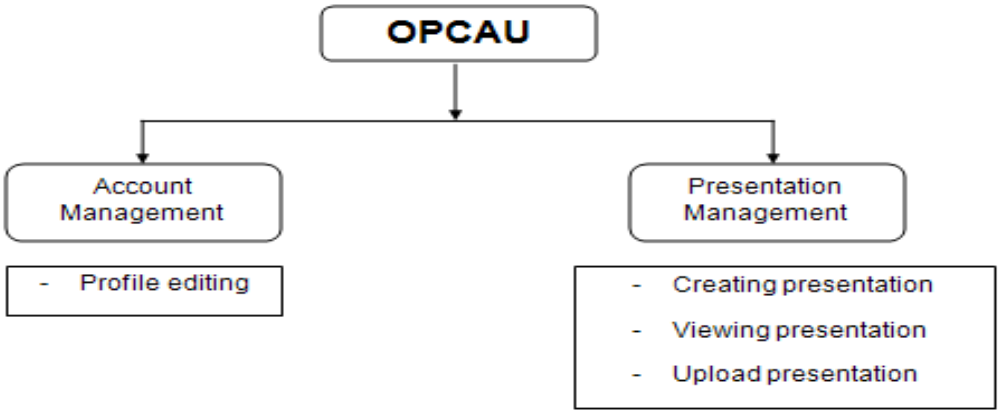

Figure 6: OPCAU main functions

4.1.1 Use Case Diagrams

Usually, a use case diagram is use to identify the primary elements of process that will form a system. It is used by most of the developer to represent the system functionalities in more simplified and understandable manner. So, user will understand easily the functional aspects of the system. Basically, use case will represent functions that are available in the system such as who are the users and what can they do with the system. With use case diagrams, all user requirements are modeled properly and this will lead to proper system development. Normally, use case diagrams drawn in a simple straightforward way of communicating and also defines the system boundaries.

In OPCAU, there are two (2) main user involved. They are the normal users which is students and the system administrator. The normal users have five (5) main activities such as system login, presentation creating, viewing or upload. On the other hand, an administrator has only three (3) activities which consider crucial to the system. The administrator can update user profile and also delete the user profile in the database.

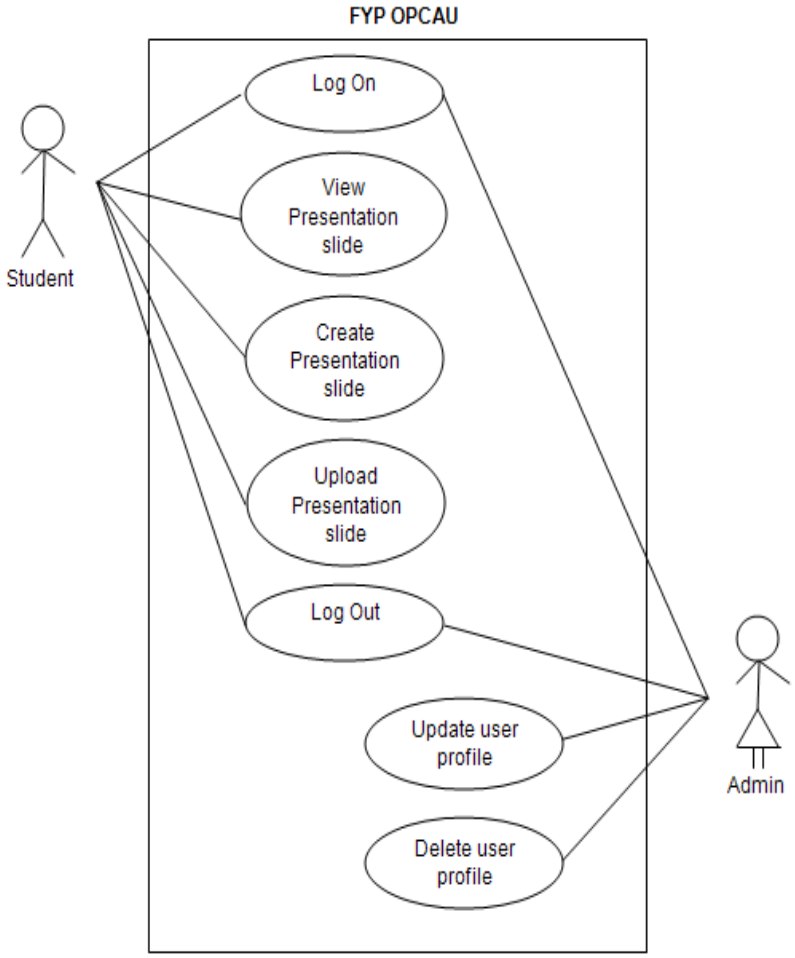

Figure 7: OPCAU use case diagrams

4.2 The Development and Interfaces Deliverables

As the project is in the development process, the interfaces are being design and develop. Each interfaces will have a different function depends on the user requirements and designs. This means, the design of each interface must suits the objectives of the system in order to satisfy the end users which are the FYP students in UTP. Back codes will also be added into the interfaces in order to make it functioning throughout the development phase. Some errors and problems are part of the development as the correction and improvement will be made to ensure the system (OPCAU) will be functioning well and suits the end user needs.

The first page of the system is the welcome page (*see Figure 8*) which the existing can login or go to registration page. The login page will have a simple username and textbox for user to enter username and password (*see Figure 9).* Once the user log into the system, they can used all the functions provided depends on their missions. Each user will have unique login id and password that will enable them to have access on certain page. However, user will no able to access the system without go through the login page. If the user tried to directly access certain page in the system by typing the URL, the user will be directed to the login page.

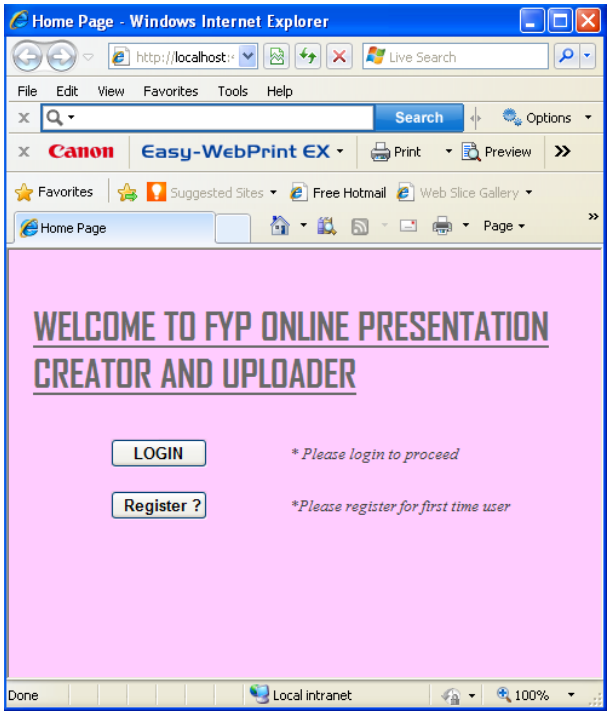

Figure 8: The Welcome Page

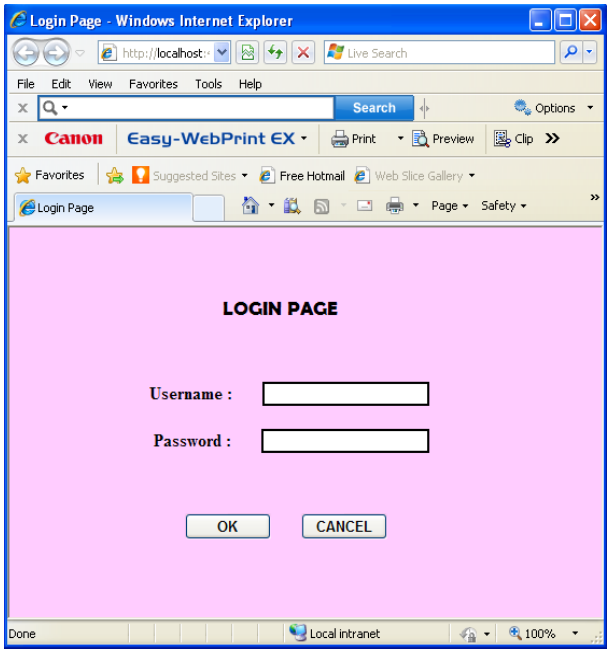

Figure 9: The Login Page

The error message will appear if user enters incorrectly either the username or the passwords. This means, the user might enter an incorrect input that does not match each others. If user successfully log into the system, a pop-up message (*refer Figure 10*) will appear to indicate the login has been successful. The cancel button if the user wishes to cancel their actions. For example, the student did not register her name in the system, but accidentally clicked on the login button in the welcome page. The system will direct student to the login page as requested but she can cancel by clicked on the cancel button to redirect her to the registration page for registration purposes.

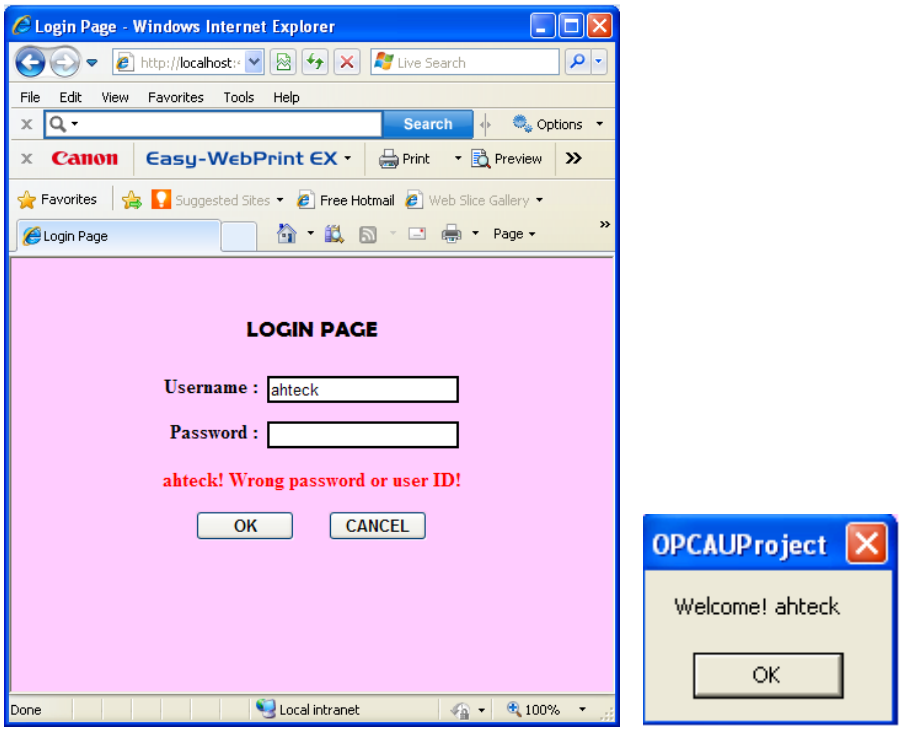

Figure 10: Error message and welcome message

The registration form is where user can register their profile into the system. The registrations are recommended for first time users. User need fill all the needed information (*see Figure 11*). The input given will be stored in the database and will be managed by system administrator. The status for normal user is one(1) as it will indicates that the user is still active. If user wishes to cancel their action, they can click on the button cancel on the form. They will then redirect back to the home page of the system.

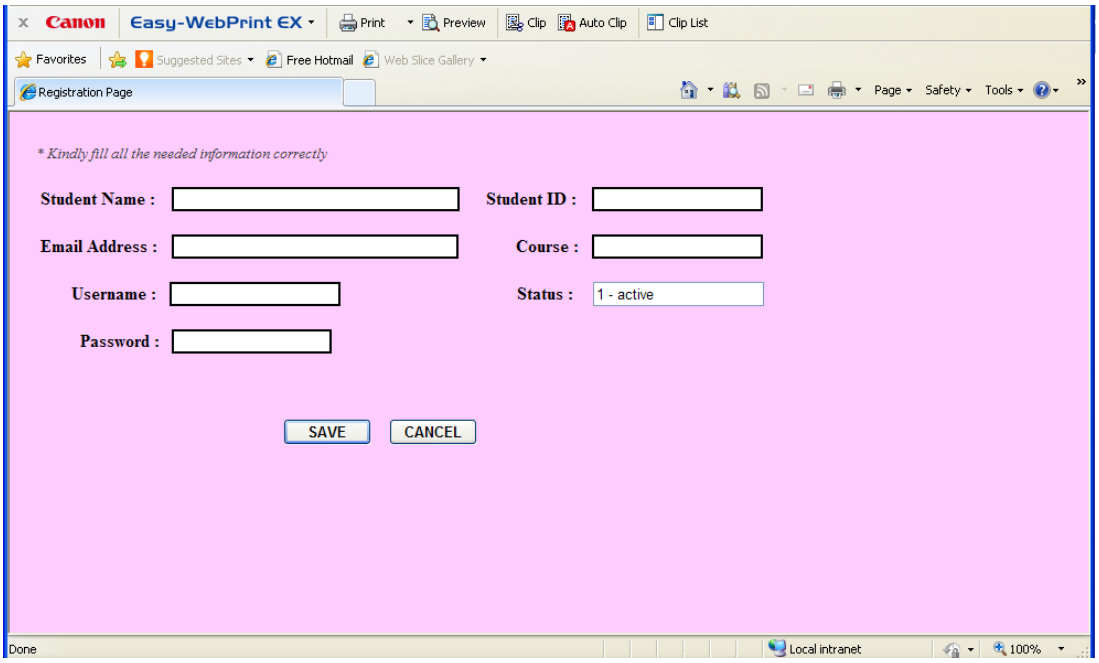

Figure 11: The Registration Page

Menu page is where the entire menu will be listed for user to choose such as view, create and upload (*see Figure 12*). User can choose one menu at a time. As the account management is only applicable for admin. It only visible with admin login (*see Figure 13*). The Ok button is for user to proceed with the choices. From this page, user can choose to logout immediately by clicking the logout button at the bottom of the page. There is a label at the top left of the page that will indicate the user full name to show this is a user friendly system.

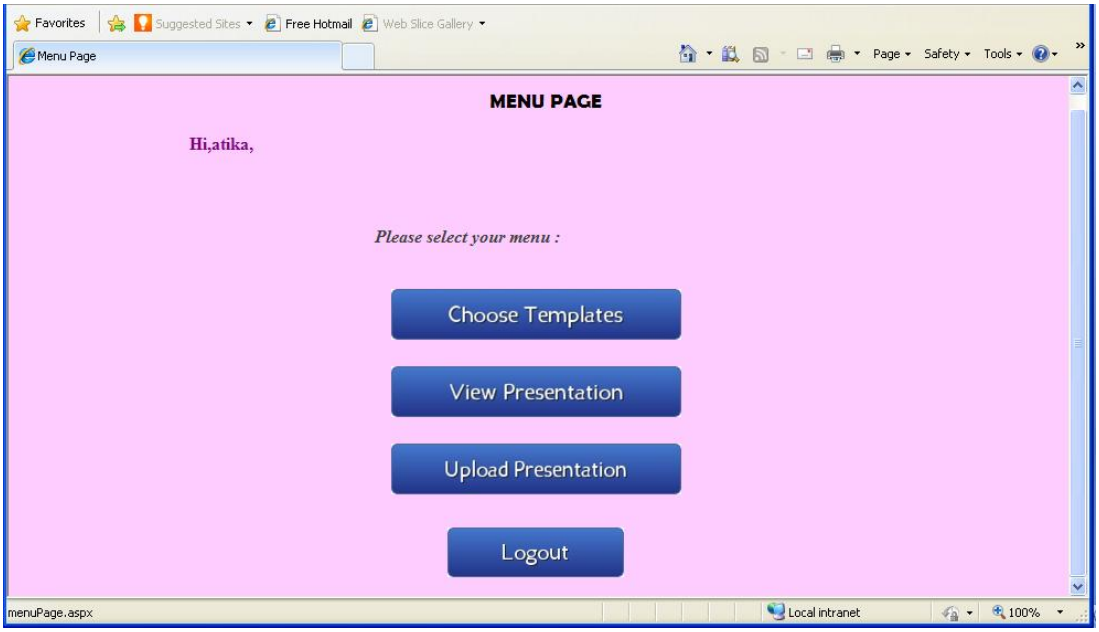

Figure 12: The Menu Page – normal user

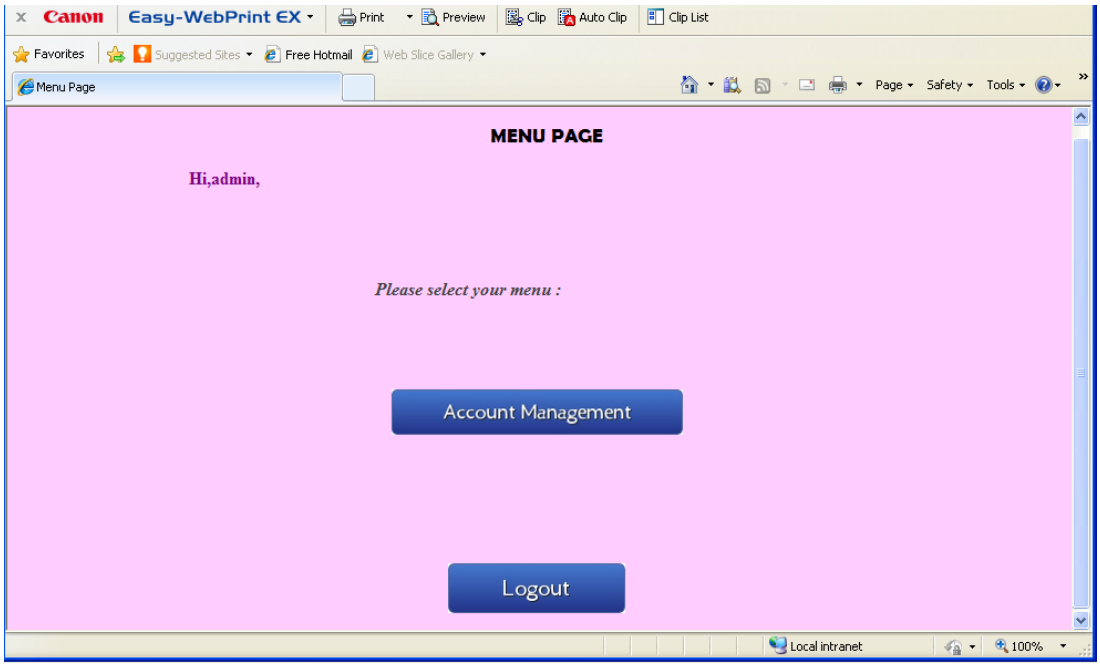

Figure 13: The Menu Page – administrator

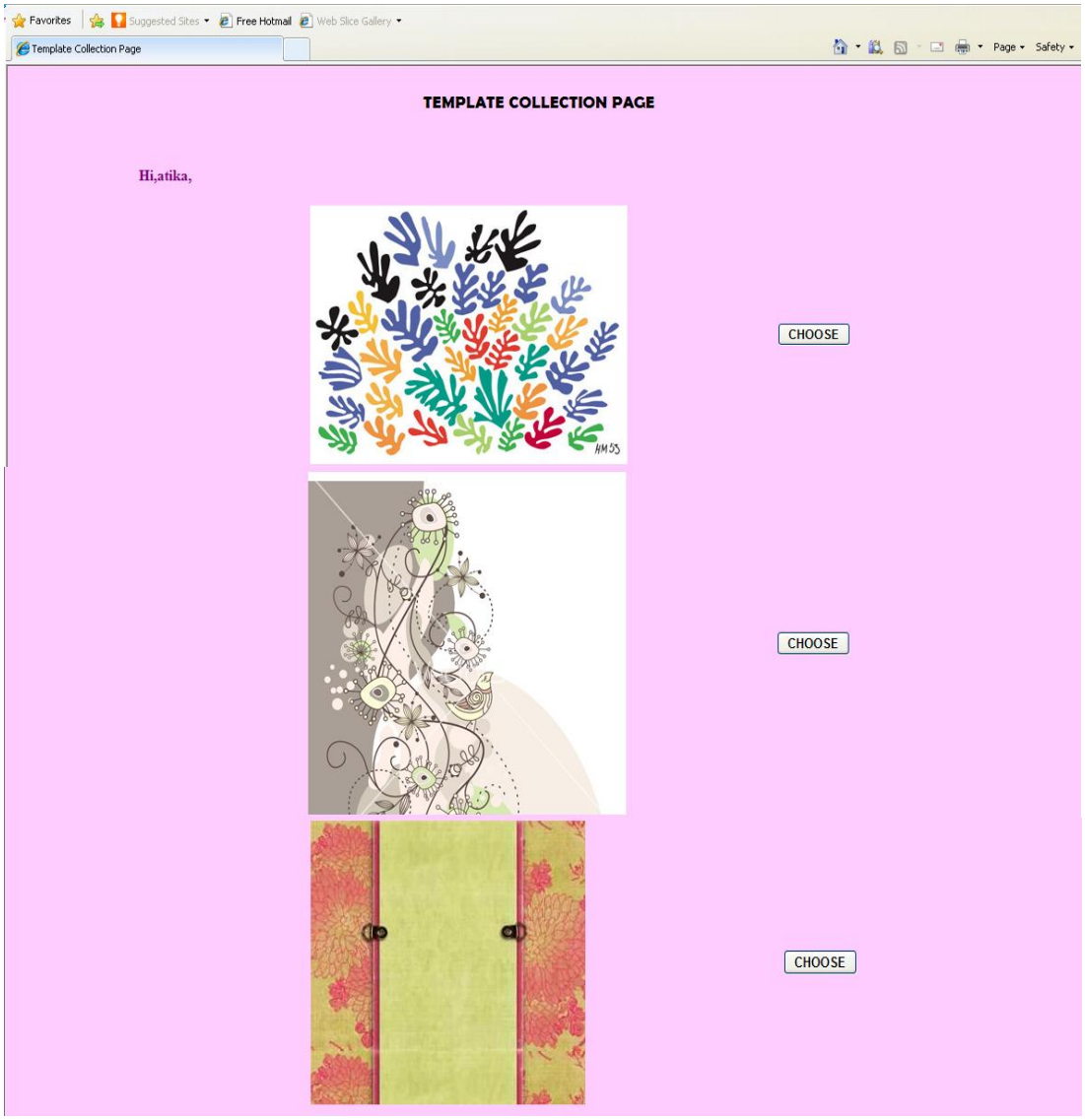

Figure 14: The Template Page

The template page is for user to choose the template they like in creating their presentation. Each template will redirect user the creation page (*see Figure 15*). The templates will be added form time to time.

One of the main page in the system is the create page where user can create their slides on the systems. There are three slides will be provided as a starter (*see Figure 15*). The sample of front page will be given. User need to add their project name and also their supervisor name in the page. Moreover, user can also add in more slides on this page as they wish to complete the presentation. For each page, the suggestion name for the slides is provided. This means, user can refer to the slides name at the top of the blank slides in creating the presentation. The guidelines will be provided below the create slides for user to refer while creating the presentation. User can click on the outline list to get further information or to see some example that might help them in creating their presentations. So, user will aware the important information needed in each slides. For example, user can get more information on introduction or literature review part by clicking the right link (*see Figure 16 and 17*). Reset button will clear all the inserted information in each slide. User needs to make sure to save all the works.

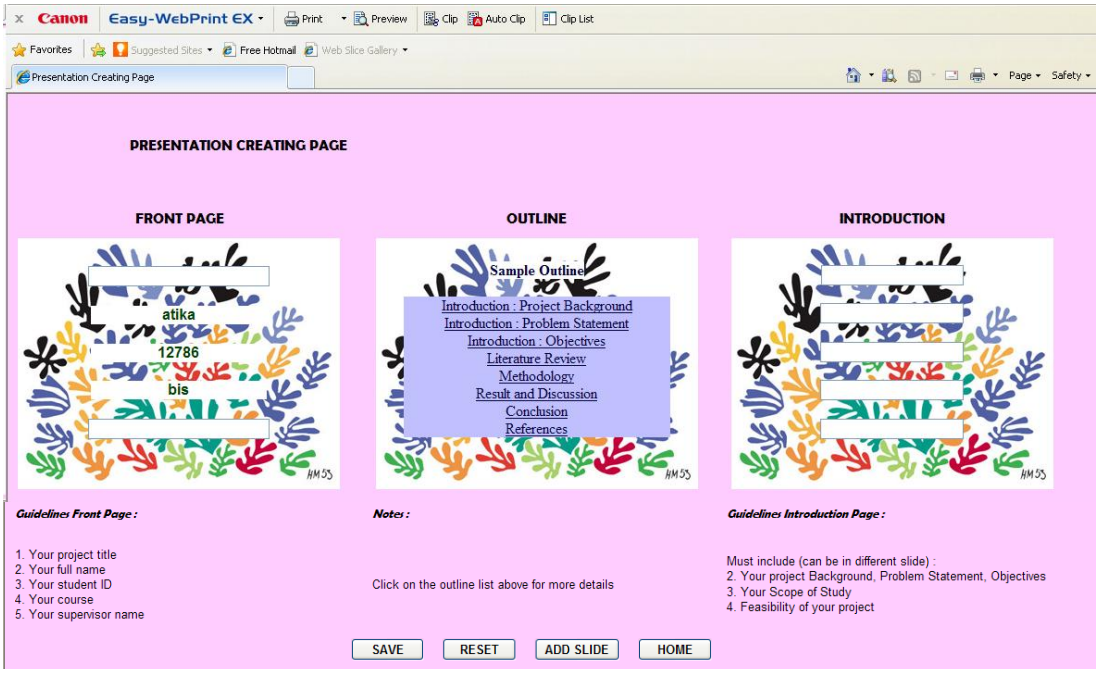

Figure 15: The Presentation Create Page

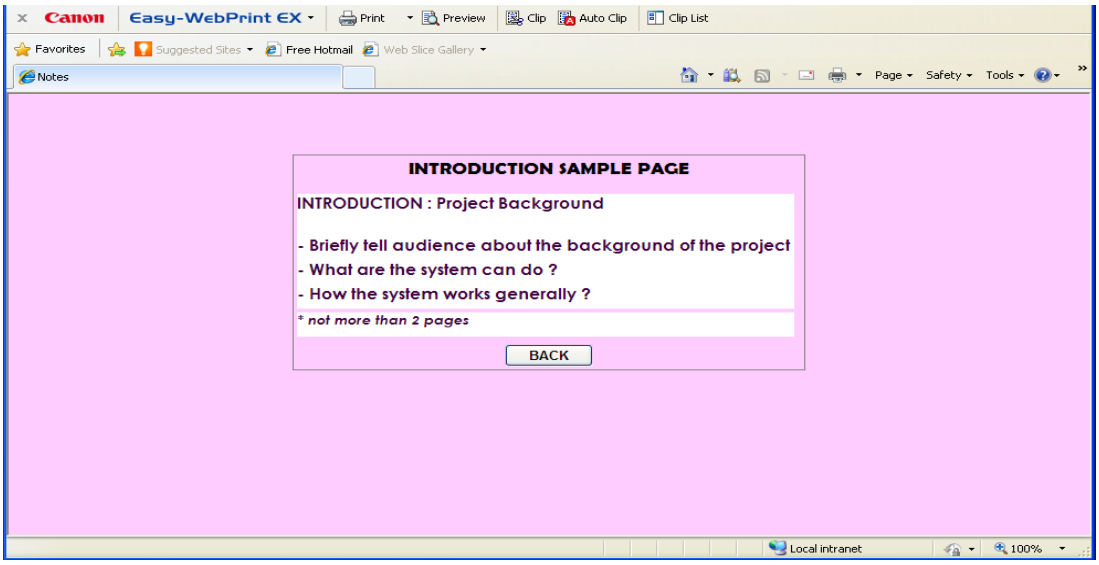

Figure 16: The Notes Page – Introduction Sample

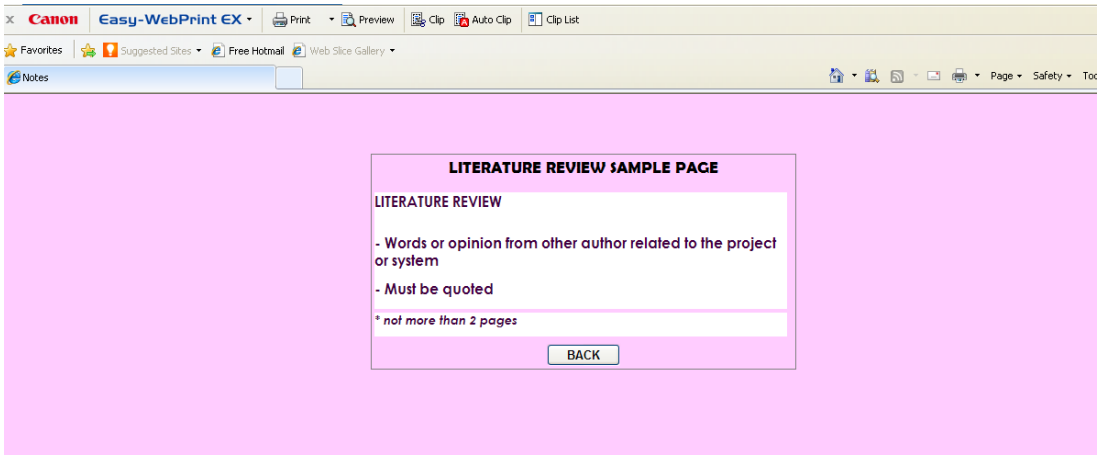

Figure 17: The Notes Page – Literature Review Sample

View page is mainly for user to view their presentation slides after being created *(see Figure 18*). User will able to see their slides that have been created earlier. Even they logout the system, the slide will remain for editing purposes. The format will be standardized based on the project research in preparing a best presentation slides. Users also have choice to present directly on the system as they can just view their slides in full screen mode. The home button will direct users to the menu page (*see Figure 12*).

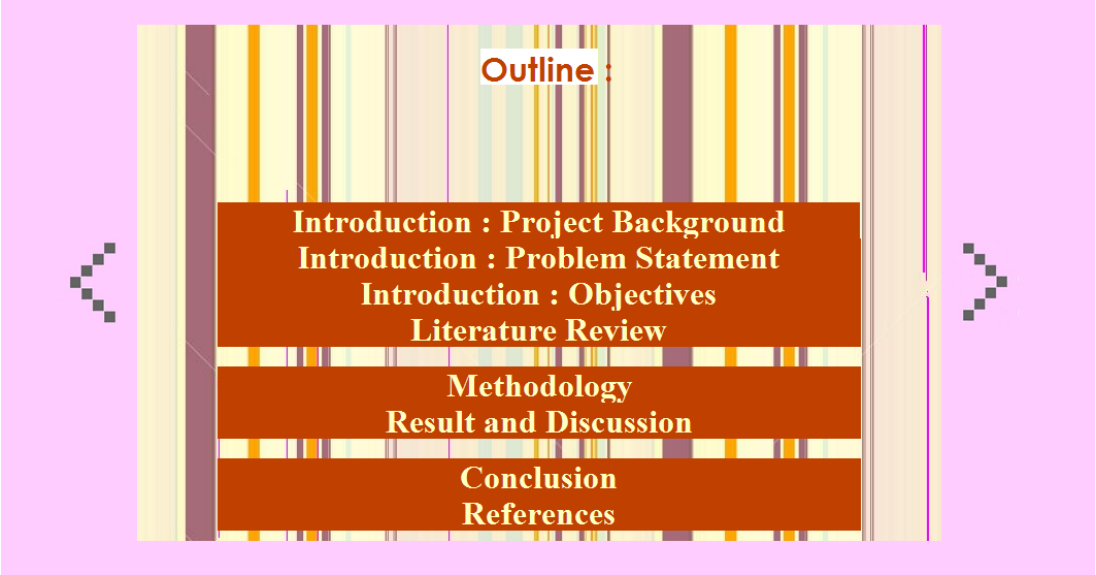

Figure 18: The Presentation View Page

Another main function of the system is in the Upload page (*see Figure 19*). This page is for users to upload their files or presentations slides into the system. In this case, it means users choose to create normal presentations slides using Microsoft power point, then only upload into the system as backup options if they left their USB or having technical problems before their presentations.

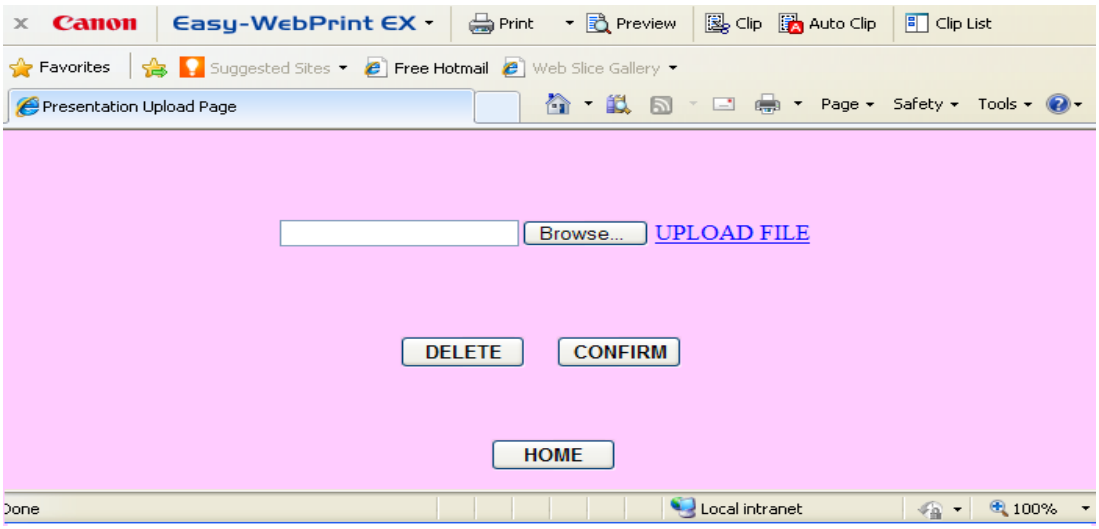

Figure 19: The Presentation Upload Page

Upload File is click when user ready to upload their slides or files. As for home button is for user to cancel their action on the page and direct them to the menu page (*see Figure 12*). User need to click on the selected files to confirm the upload process. As the message box (*see Figure 20*) will indicates that the files are successfully uploaded into the system. As for the red files names in the red box below (*see Figure 21*) is indicating that the files are successfully deleted from the system user must aware that each files wanted to upload or delete must first be selected.

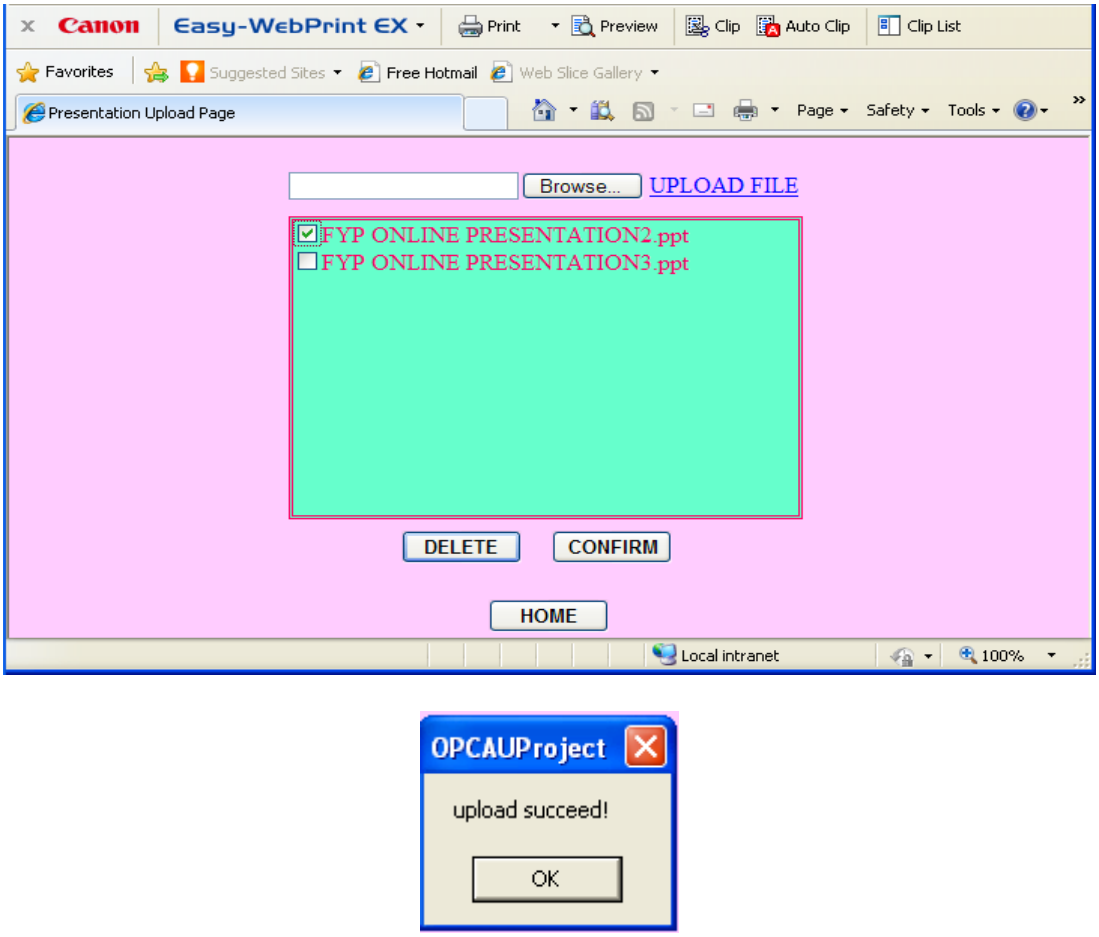

Figure 20: Confirmation to upload files and message box

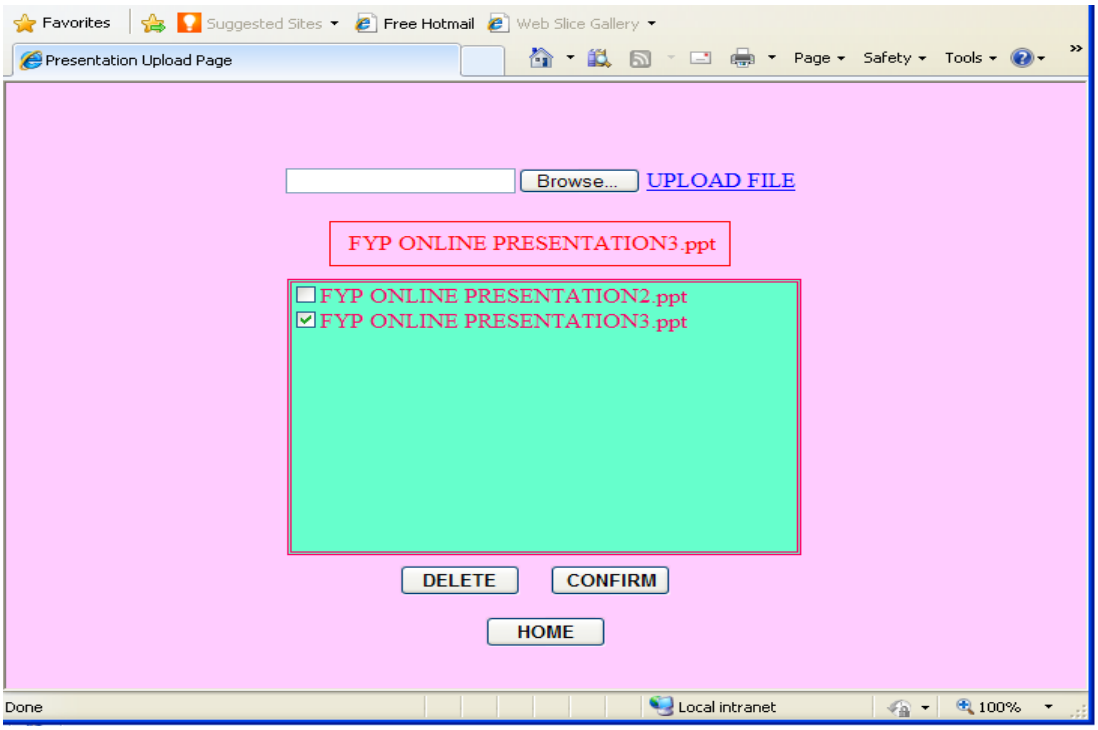

Figure 21: Deleted files indicator

When there are changes request related to user profile, an admin can update the users profile in the account management page (*see Figure 22*). The menu page for the account management is only accessible by the administrator. User profile can be update by filling the update profile form (*see Figure 23*). However, the username cannot be changed. It will use as the indicator for which profile will be or needed to be update. Admin will select the respective username before updating the user profiles.

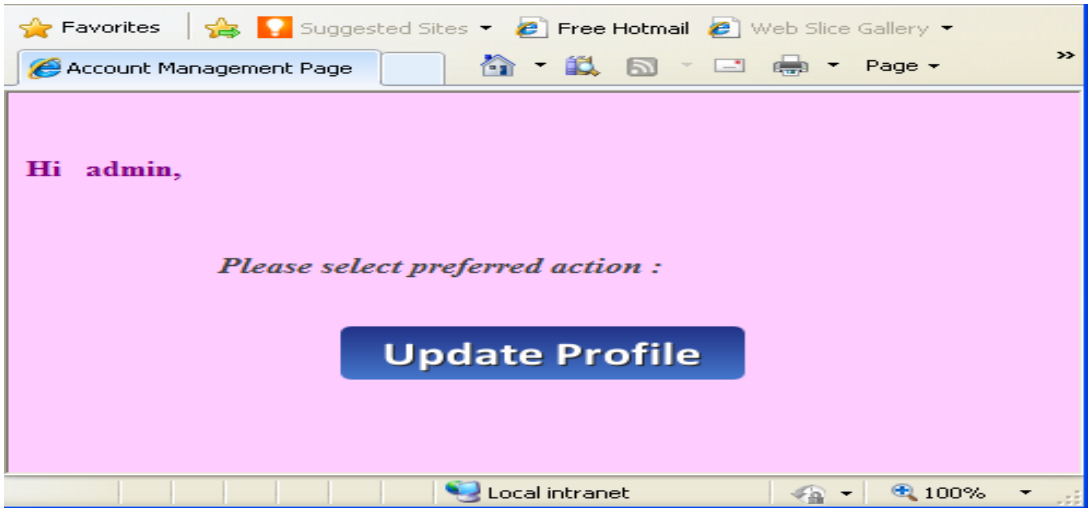

Figure 22: The Account Management Page

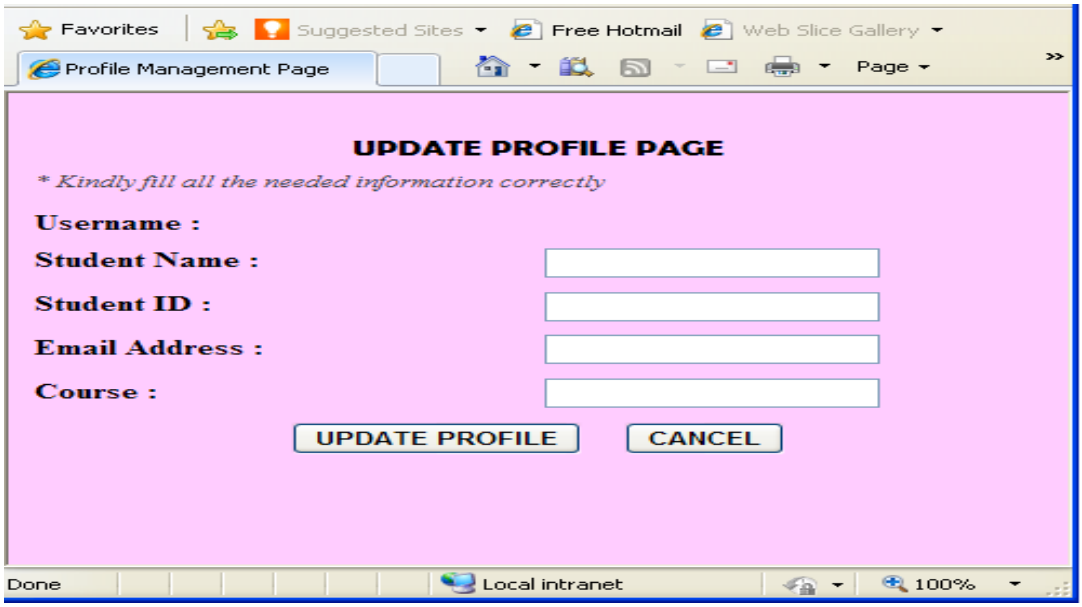

Figure 23: The Profile Update Page

4.3 OPCAU Usability Test Survey

This survey has been conducted to ten (10) respondents with the time limit of ten (10) minutes for each person. The respondent will need to have the general browsing experience and also the general look and feel of this system. The survey consist of seventeen (17) questions altogether based on the user general observation (*refer Appendix D*). The result and findings are as below :

From the first questions "*The easiness to navigate the whole system",* found that half of the respondent has response on *Extremely Easy*. The other half has response to *Easy* and *Neutral* answer. This shows that this system is very easy to navigate by the user.

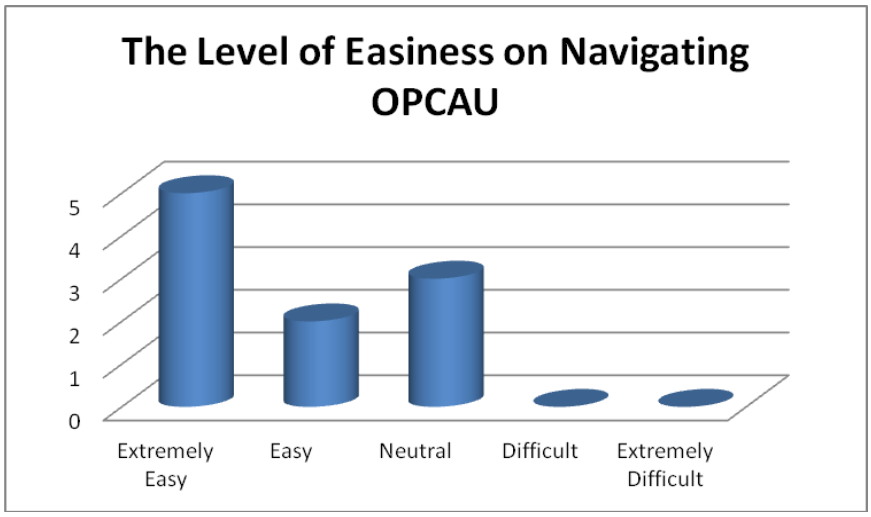

Figure 24: Result for the level of easiness on navigating OPCAU

Based on the second question that asking about the level of obvious for user to take an action on the system, 80% of the respondent agree that the system show a very obvious functions that help user to take action as they wished. There are only 20% of the respondent disagree because they think that the system does not direct them to the requested pages.

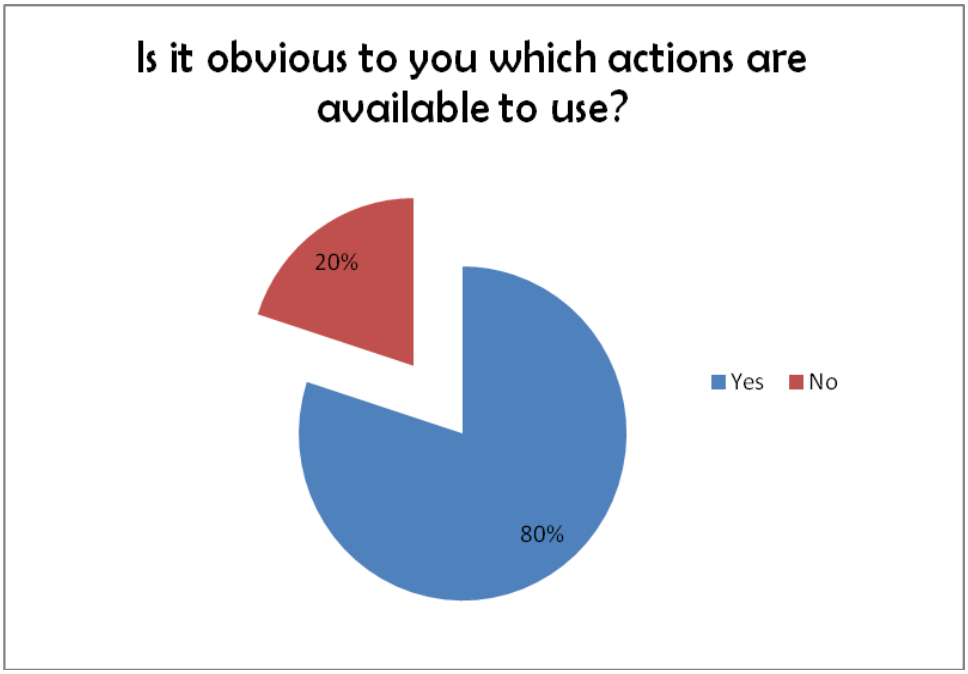

Figure 25: Result for the level of obvious in taking action

As for the system consistency, seven (7) of the respondent said the system is very consistence and follow the flow that are supposed to be. The remaining respondent has said no because the do not think the system is consistence from page to page.

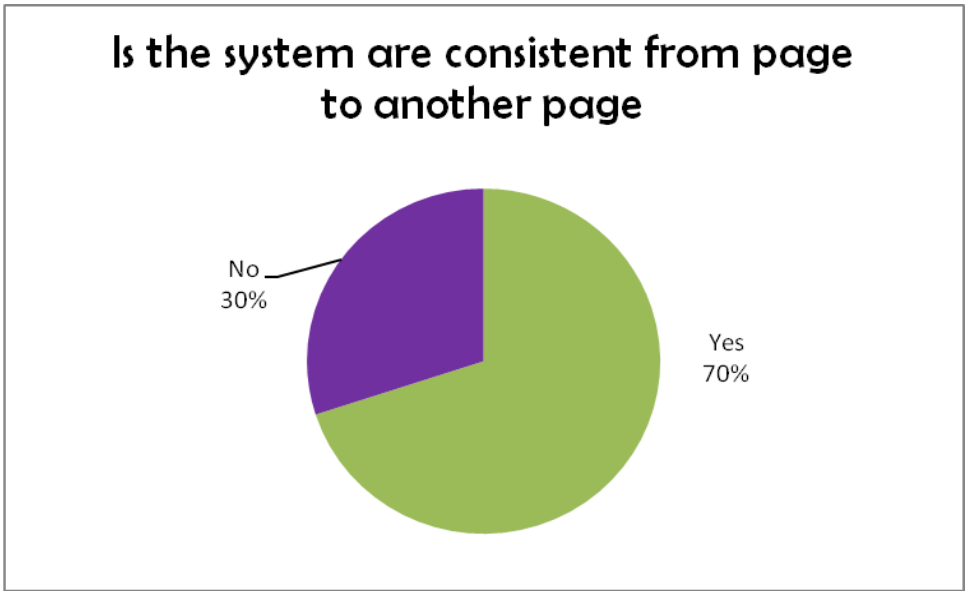

Figure 26: Result for the system pages consistency

Most of the respondent agreed that the button size use in the system suits is functions. 70% said that the font size uses are suitable. User can see clearly all the buttons. About 10% did not like the size of the button uses and 30% said that the size is too small and hard to be read. This means, the system will remain to use the font face and button type but size will be increase about 0.5mm.

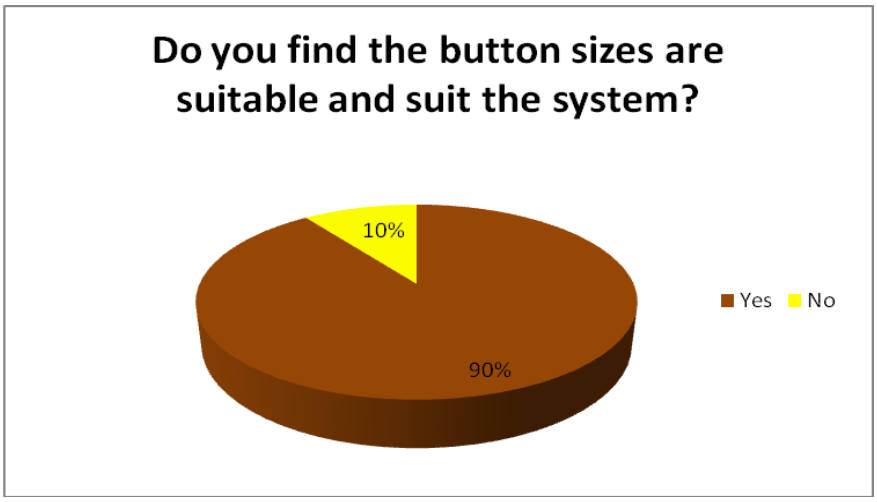

Figure 27: Result for the suitability of the button size

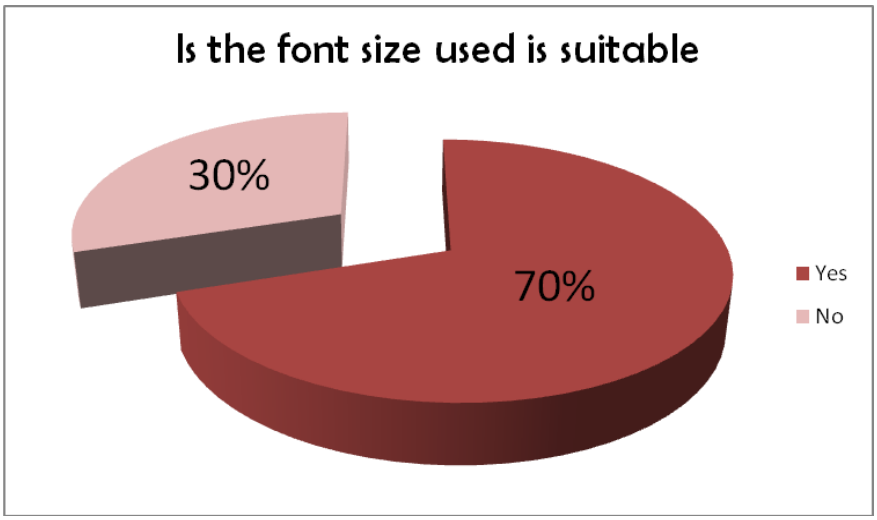

Figure 28: Result for the suitability of the font size used

By using the System Usability Scaling, the result of the overall usability of this system can be gathered. The table below shows the summary of whole questionnaire and the rating for each question. The values obtain can be used in calculating the SUS score and help determined the user usability of the system. Firstly, total up the score contribution from each question. Each of the score contribution will range from 0 to 4. For question of odd numbers (1,3,5,7,9), the score contribution will be minus with 1. For the even number question (2,4,6,8,10), the contribution score is 5 minus the scale position. Next, multiply the total scores by 2.5 to obtain the overall value of SUS. From the table, the total of all questions is 27.4. So, the sum will be multiplied with 2.5 which will equal to 68.5% (2.5 x 27.4). Based from the sum of overall value SUS shows more than 50%. This makes the level of usability of OPCAU system is high.

Table 2: Result for System Usability Scale

QUESTIONS	RATING AVERAGE (minus 1 or 5 minus the average rating)
1. I think it is easy to understand and follow the flow of the modules	4.1 – 1 = 3.1
2. I found the module to be unnecessarily complex	5 - 3.9 = 1.1
3. I found the various modules in this system were well integrated	4.2 – 1 = 3.2
4. I think that I would need the support of technical person to be able to use the system.	5 - 3.7 = 1.3
5. I think I would like to use the modules frequently	4 – 1 = 3.0
6. I found that the module is very burdensome to use	5 - 2.8 = 3.2
7. I felt very confident in using this module	4.3 – 1 = 3.3
8. I needed to learn a lot of things before I could use this module efficiently	5 - 2.2 = 2.8
9. I would imagine most people would able to learn to use the module quickly.	3.9 – 1 = 3.9
10. I though there was too much of inconsistency in this module	5 - 1.5 = 3.5
TOTAL	**27.4**

CHAPTER 5

CONCLUSION AND RECOMMENDATION

5.1 Conclusion

In conclusion, the objective of this research is to create a proper presentation uploader and creator to ease the FYP students in UTP during their final presentation preparations. As the OPCAU system has provided a simple uploader for FYP student to upload their presentation slides into the system. All the functions can be access via login which means students can view the guidelines provided in the system in creating better presentation slides for their oral presentations. OPCAU system has several functions that can help minimize and avoiding the problems that will down grade student performance and credibility**.** The objective has being achieved and the research will give benefits to future student development process and course requirements.

5.2 Recommendation

The system OPCAU is developed as a result from the research of the project; therefore this system can be improved in terms of its performance and features. The prototype can be enhanced into final product that can be used anytime and anywhere. The OPCAU can be enhanced by broadening its scope of usage. Currently, the system is only meant to be used for creating presentation slides for FYP presentation. In near future, this system can be modified and enhanced to be used not only for FYP students but to others. For example, this system can also be used for foundation or undergraduate students which the system can help and ease them in creating presentations for them and also uploaded to the systems. This is because in every semester in UTP, students are requiring to develop project or assignment and most of the time; they need to do a presentation. This means they need to create a good presentation slides to impress the examiners or their respective lecturers.

In addition, the system can also be enhanced by adding and administrator tasks. The current prototype of the system only allows admin to manage the database and update student profile based on the request. So, for future system development, admin can manage the profile of the students and solved any inquiries. For instances, a password recovery managed by admin for particular students that forgot their passwords. This will also include functions to reset the previous passwords.

Furthermore, the system can be improvised by adding more function and features that suit the suitability of the system itself and the users. Some of the functions can be added are user able to download their uploaded or created slides and also they can edit their uploaded presentation slides on the system. More templates for the presentation will be added to give choices for user to create their presentations. Another suggestion is the users can present directly using the system such as by zooming functions. Thus, it will be much easier and convenience for the users to use the system. Apart from that, the prototype system is Web based as a final product. Therefore, it will be better if the system is able to develop as a mobile application and allow all users to access the system at anytime and anywhere they wished.

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APPENDIX

Appendix A:

Project Milestones

- ✓ Project Research (technical aspects)
- ✓ Interim Report
- ✓ Progress Report
- ✓ Develop diagram (use-case)
- ✓ Develop database and interfaces
- ✓ Present quarter of the project to the supervisor
- ✓ Revise project (diagrams)
- ✓ Develop functions for the project
- ✓ Debugging
- ✓ Final Dissertation

✓	Completed
o	In progress

Appendix B:

FYP 1 Gantt chart and Milestone

ID	TASK	Jan ' 12	Feb ' 12					March' 12					April ' 12		
		W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14
1	FINAL YEAR PROJECT														
2	Proposal Submission														
3	creating database and server														
4	Research Class 1														
5	Research Class 2														
6	Extended Proposal Submission														
7	Develop interfaces														
8	Defences Proposal and Progress Evaluation														
9	Progress Report Submission														
10	Interim Report Submission														

Appendix C:

FYP 2 Gantt chart and Milestones

ID	TASK	SEPTEMBER		OCTOBER				NOVEMBER					DECEMBER		
		W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14
1	FINAL YEAR PROJECT														
2	Progress Report Submission														
3	Develop Interfaces														
4	Pre-EDX														
5	Develop System (codes)														
6	Review System														
7	Dissertation Submission														
8	VIVA FYP 2														
9	Review System														
10	Final Dissertation Submission														

	Progress
	Due Date

Appendix D:

OPCAU Usability Test Survey

OPCAU Usability Test

This survey is conducted to find out the level of usability of the Online Presentation Creator and Uploader (OPCAU). You will be given 10 minutes to go through the system. Your answer will be much appreciate and will be used to improve this system usability. Thank you

The General Observation

1. The easiness to navigate the whole system. *(Please circle your answer below : 1,2,3,4,5)*

Extremely Difficult	Difficult	Neutral	Easy	Extremely Easy
1	2	3	4	5

2. Is it obvious to you which actions are available to use?

   ☐ Yes ☐ No

3. Look and tick

   a. Is the system are consistent from page to another page?

      ☐ Yes ☐ No

   b. Do you find the button sizes are suitable and suit the system?

      ☐ Yes ☐ No (Why? : _____)

   c. Is the font size used is suitable?

      ☐ Yes ☐ No (Why? : _____)

   d. Do you find the colors chosen are suitable?

      ☐ Yes ☐ No (Why? : _____)

   e. In your opinion, is the whole system look neat?

      ☐ Yes ☐ No (Why? : _____)

OPCAU System Usability Scale (SUS) *(rate and circle the level of usability)*

1. I think it is easy to understand and follow the flow of the modules

Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
1	2	3	4	5

2. I found the module to be unnecessarily complex

Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
1	2	3	4	5

3. I found the various modules in this system were well integrated

Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
1	2	3	4	5

4. I think that I would need the support of technical person to be able to use the system.

Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
1	2	3	4	5

5. I think I would like to use the modules frequently

Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
1	2	3	4	5

6. I found that the module is very burdensome to use

Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
1	2	3	4	5

7. I felt very confident in using this module

Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
1	2	3	4	5

8. I needed to learn a lot of things before I could use this module efficiently

Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
1	2	3	4	5

9. I would imagine most people would able to learn to use the module quickly.

Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
1	2	3	4	5

10. I though there was too much of inconsistency in this module

Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
1	2	3	4	5

Final Year Project Online Presentation Creator and Uploader

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***Abstract* — The Final Year Online Presentation Creator and Uploader system is a project that will help to ease final year students in creating and preparing their presentations slides. This system will be a web based system that can be log in anywhere at anytime. Each student will need to registers their log in id or username and password for first time usage. This system is created due to few problems that occur during the previous final year students' presentation preparations. They might overlook the unnecessary content and left out the important ones. With the system, it will help them to be more prepared and boost out their confident level indirectly because the system has provide guidelines to be followed.**

Keywords - Presentation Management; Web Based System

I. INTRODUCTION

Final Year Project (FYP) is cumpolsory for all the final year student in Universiti Teknologi Petronas (UTP). This subject is divided into two semesters which are the final year project one (1) and (2). Each student must complete their project in two semesters. Moreover, for each final year project will be included two main presentations. This means, the final year students need to present their project and the report in terms of presentation (VIVA) to the examiners and respective supervisors. During the presentation, student tends to make mistakes. They seem to present either too much information or less. They usually forgot the more important facts or information and end up focusing on the less useful information. These will only cause presentation will be less efficient and boring. With the system which is the Final Year Project (FYP) Online Presentation Creator and Uploader, it could help students to prepare and will present and efficient and effective slides. FYP Online Presentation Creator and Uploader (OPCAU) is actually a web based system that will ease FYP students during preparation period.This will also help more on organizing the presentations submission by the students and help students to be prepared.

The main functions in the system are the presentation creator and also the presentation uploader. The presentation creator is where FYP students can create their presentation slides based on the guidelines given. The guidelines are basically the requirements of each part of presentations that will give clearer understanding for students. A view function is added for students to view their presentations after they done creating the presentations. The presentation uploader is where FYP students can upload their presentation slides using their login id into the server and they can open it during the presentation. The system also will provide delete and update functions.

Moreover, some of FYP Students in Universiti Teknologi Petronas (UTP) have problem to create effective and efficient Power Point Presentation for their oral presentation to the examiners which means both external and internal examiners. The problems are they lack of understanding of the standard of FYP presentation formats which causing them to lose a lot of marks. Sometimes, they tend to give unnecessary information and worst the information are redundant. In some cases, student usually will do last minutes preparation that will only contributes to potential of errors and confusion.

OPCAU are designed to meet several objectives outlined such as to create a standardized template for FYP presentations, to provide guidelines in preparing slides and also to have an organized presentation for student to upload their presentation slides.

The system focus is on the development of a web-based system for presentation creator and simple upload functions for FYP 1 and FYP 2 student. It will help and ease the student in creating a better presentation slides for their projects. The author will be focusing on developing system online and its availability of the function creating presentation slides and uploaded file for the FYP student in UTP. The next importance action is the knowledge acquisition for developing the knowledge base and inference methods to assume

the suitable solutions. In addition, the scope of the project will evolve around the learning of the system development which is VB.net and MySQL.

This shows that the creation of database a necessary for some user interfaces. This project will be the initial system developed to managed FYP presentation creator and uploader. So, only several functions has been covered which are creating a presentation slides, view created presentation slides, upload presentation slides, nsert and saving new data, user verification for security purposes. Basically, the main functions describe above given the image of this OPCAU system. However, the system cannot allow user to edit the complete presentation slides but there will be an additional features depends on the developments of the system.

The OPCAU will be done in two semesters in order to fulfill FYP I and FYP II courses. The author has fully understanding of the study given its relation to business information background an aware of the challenges that will be faces onward. The author also will rely on previous findings and journals as reference throughout the study. As it includes basic knowledge of Microsoft Visual Basic (VB.net) and also some of the internet programming as it is a web based system. Based on the description above, it is very clear that this project will be feasible to be carried out within the time frame.

II. LITERATURE REVIEW

A. Presentation: Definition and Concept

The usage of Power Point is very common presentation tools to people around the world. Power Point is very popular tools among people who give presentations, it can help created visual aids that will help get the message across to an audience, whatever the message are and in what format are they will be presented (Wempen, 2004).

Even though power point presentation is very common tools for everyone, still there are mistakes made by the people that involve in presentations. These are the common mistakes lists that always occurs which are choosing electrifying font and background colors, poorly chosen templates and design, too much information inserted that will eventually increase the numbers of slides (Russell). These also be supported with several other mistakes which are text size are no suitable and sometimes too much text in one slides (Cora, 2010).

However, there are ways to avoid and improve the presentations thus can be used and implement by all either students or staff. People should focus on the designing the presentations, includes images related to the topic that are being presented and suitable font size and colors. All these will help to attract audiences and made your presentations interesting (Sieber, 2009). The other way to create powerful presentations is by listing the outlines of the topic being presented, double check on the grammar and spelling, and again, less text in on slides, must includes charts and diagrams for better understanding and related to the topics (Brown, 2006). As for the system being develop, the guidelines and templates are given will be related to the FYP UTP guidelines, so that FYP students can produce a powerful power point presentations thus help them to boost up their confidence levels.

B. Online File Storage Service: Definition and Concepts

The system (OPCAU) is almost similar to a file hosting services provided online because it will be an online application that can help student to access their slides or presentations anytime anywhere. File hosting service can be defined as a services designed exclusively for users to store their data in the network or internet. This will ease them in accessing the file whenever and wherever they need them (J.Cory, 2010).

The advantages of using online file storage are known widely by the internet users. The online file storage is mostly provided free by the hosting company but the service is better when user needs to pay for their online storage. The online file storage also very flexible and efficient because the data can be access anytime any where but an internet connection is needed. It also used multiple servers that can help manage multiple uploads and downloads activities at a time. It will save disk space and can instantly have the files needed on any files. Thus, the data or files will be more secured (A.Maheshwari, 2009, January 15). This shows that the system (OPCAU) develop is suitable to all type user especially students.

C. Existing System related to OPCAU

There are several online services has provided an online presentation creator. Most of service providers are providing free services but need to register in order to use their services. The user login is usually for security purposes and database maintenance purposes. Each of the web site that providing online presentation creator has unique way in creating the presentation slides.

One of the examples for online presentation creator services is Prezi.com. As defined by Curtin (September, 2012), Prezi is a cloud base presentation software that included with zooming functions to enable user to zoom in and out on the virtual canvas. Prezi is also different from typical presentation creator because it has more interactive and interesting functions that will attract viewer. The advantage of this online presentation creator is it has zooming functions and allow user to be creative in creating a presentation slides. As for the disadvantages are this type of presentation is not suitable for professional presentation. It also not available in offline and it is based on flash player which very basic web format.

III. METHODOLOGY

A. *System Methodology*

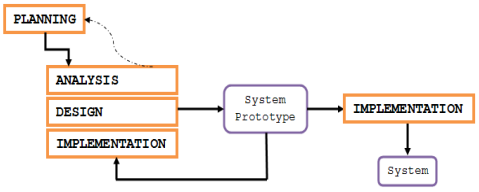
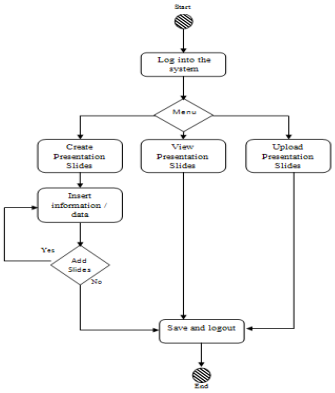


Figure 3A-1 :Throwaway Prototyping Methodology

Based on figure above, it can be said that the project is develop and suggested to be develop in a throwaway prototyping method, which requires the developer to always aware, analyze and design the prototype that will fulfill the user requirements.

B. *System Basic Flow Chart and System Architecture*



The user needs to log in into the system before the functions can be used. First time user need to register their username and password in order for the system to capture their existence in the database. After the administrator has approved their registrations, the student or the user can use all the functions provide.

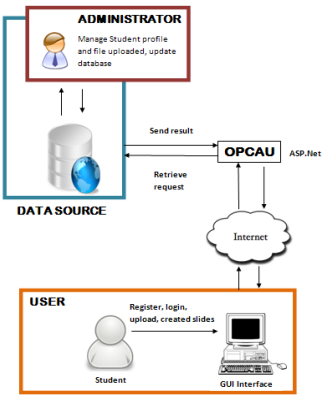


Figure 3B-1 : OPCAU Basic Flow Chart and System Architecture

OPCAU system architecture consists of three main modules. They are user, data source, and administrator. For the first module which is the user which includes the FYP students and GUI interfaces. The second module consists of data source that is also known as database. Thirdly, the admin is included in the administrator module.

C. *Tools Required*

The tools required and chosen in order to develop the project are Microsoft Visual Basic (VB.net) and MySQL because it is free, fast and reliable open source software.

IV. RESULTS AND DISCUSSIONS

A. *Data Requirement Analysis*

As stated before, the analysis phase is where the developer will take all the objectives outlined earlier into considerations and this phase is also where the related information are gathered in order to proceed the project. Moreover, the requirements are defined. This means, this is the most crucial part or step in the entire system development.

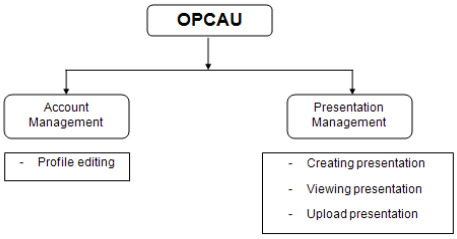


Figure 4A-1 : OPCAU Main Functions

This system basically has two (2) main functions which are the account management and presentation management. The account management is where only administrator has access to this function. The other part is the presentation management which involve of creating viewing and uploading the presentations based on the user choices.

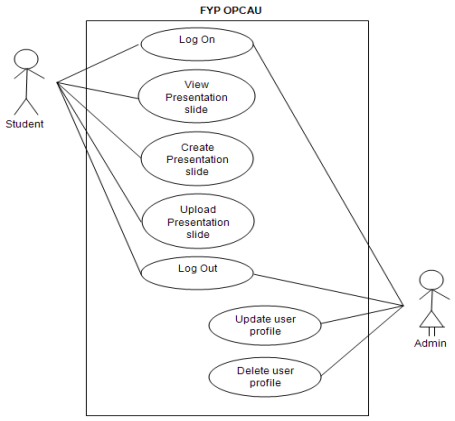


Figure 4A-2 : OPCAU Use Case Diagram

Basically, use case will represent functions that are available in the system such as who are the users and what can they do with the system. With use case diagrams, all user requirements are modeled properly and this will lead to proper system development. In OPCAU, there are two (2) main user involved. They are the normal users which is students and the system administrator. The normal users have five (5) main activities such as system login, presentation creating, viewing or upload. On the other hand, an administrator has only three (3) activities which consider crucial to the system. The administrator can update user profile and also delete the user profile in the database.

B. OPCAU Usability Test

This survey has been conducted to ten respondents with the time limit of ten minutes for each person. The respondent will need to have the general browsing experience and also the general look and feel of this system. The survey consists of seventeen questions altogether based on the user general observation. The survey is divided into two sections which are (1) the General Observation and (2) System Usability Scale (SUS).

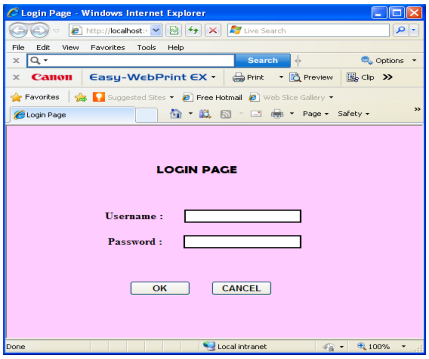


Figure 4B-1 : OPCAU Login Page

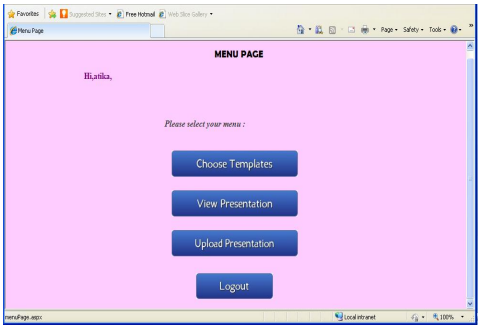


Figure 4B-2 : OPCAU Menu Page

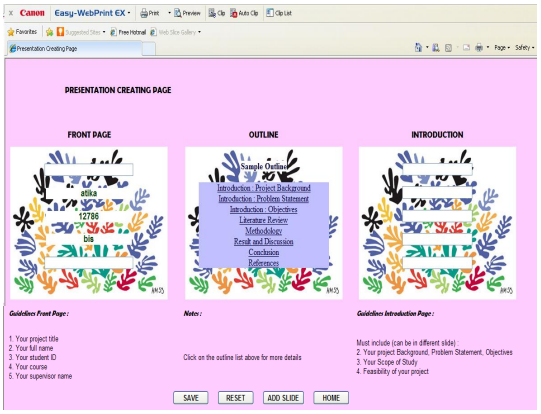


Figure 4B-3 : OPCAU Presentation Create Page

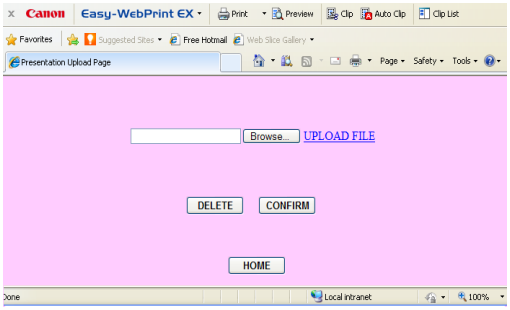


Figure 4B-4 : OPCAU Presentation Upload Page

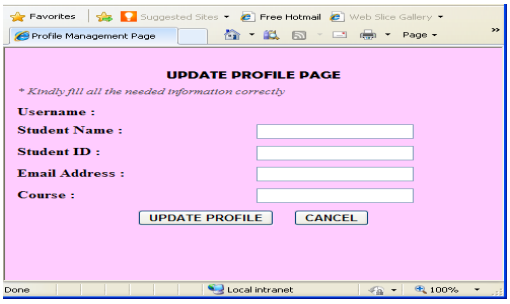


Figure 4B-5 : OPCAU Presentation Upload Page

C. OPCAU Usability Test : General Observation Result

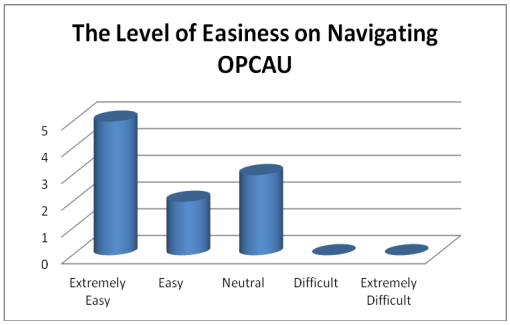


Figure 4C-1 : Result for the level of easiness to navigate OPCAU

From the first questions "*The easiness to navigate the whole system",* found that half of the respondent has response on *Extremely Easy.* The other half has response to *Easy* and *Neutral* answer. This shows that this system is very easy to navigate by the user.

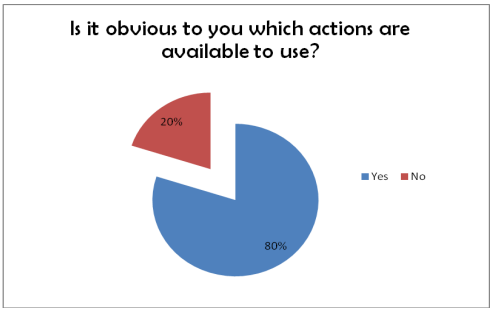


Figure 4C-2 : Result for the level of obvious in taking action

Based on the second question that asking about the level of obvious for user to take an action on the system, 80% of the respondent agree that the system show a very obvious functions that help user to take action as they wished. There are only 20% of the respondent disagree because they think that the system does not direct them to the requested pages.

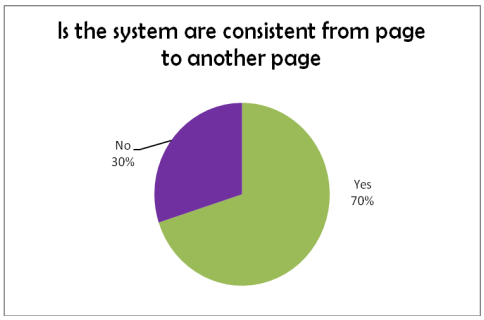


Figure 4C-3 : Result for the l system pages consistency

Seven of the respondent said the system is very consistence. The remaining respondent has said no because the do not think the system is consistence from page to page.

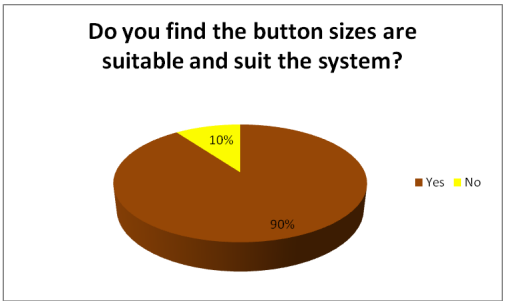


Figure 4C-4 : Result for the suitability of the button size

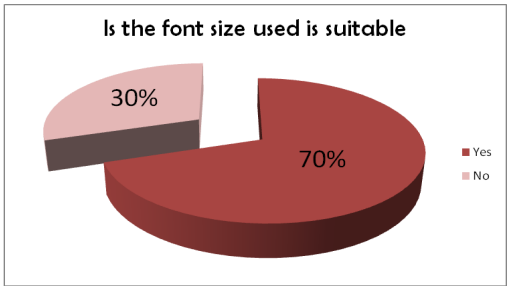


Figure 4C-5 : Result for the suitability of the font size used

Most of the respondent agreed that the button size use in the system suits is functions. 70% said that the font size uses are suitable. User can see clearly all the buttons. About 10% did not like the size of the button uses and 30% said that the size is too small and hard to be read. This means, the system will remain to use the font face and button type but size will be increase about 0.5mm.

D. OPCAU Usability Test : System Usability Scale (SUS)

By using the System Usability Scaling, the result of the overall usability of this system can be gathered. The table below shows the summary of whole questionnaire and the rating for each question. The values obtain can be used in calculating the SUS score and help determined the user usability of the system. Firstly, total up the score contribution from each question. Each of the score contribution will range from 0 to 4. For question of odd numbers (1,3,5,7,9), the score contribution will be minus with 1. For the even number question (2,4,6,8,10), the contribution score is 5 minus the scale position. Next, multiply the total scores by 2.5 to obtain the overall value of SUS. From the table, the total of all questions is 27.4. So, the sum will be multiplied with 2.5 which will equal to 68.5% (2.5 x 27.4). Based from the sum of overall value SUS shows more than 50%. This makes the level of usability of OPCAU system is high.

Table 1: Result for System Usability Scale

QUESTIONS	RATING AVERAGE (minus 1 or 5 minus the average rating)
1. I think it is easy to understand and follow the flow of the modules	4.1 – 1 = 3.1
2. I found the module to be unnecessarily complex	5 - 3.9 = 1.1
3. I found the various modules in this system were well integrated	4.2 – 1 = 3.2
4. I think that I would need the support of technical person to be able to use the system.	5 - 3.7 = 1.3
5. I think I would like to use the modules frequently	4 – 1 = 3.0
6. I found that the module is very burdensome to use	5 - 2.8 = 3.2
7. I felt very confident in using this module	4.3 – 1 = 3.3
8. I needed to learn a lot of things before I could use this module efficiently	5 - 2.2 = 2.8
9. I would imagine most people would able to learn to use the module quickly.	3.9 – 1 = 3.9
10. I though there was too much of inconsistency in this module	5 - 1.5 = 3.5
TOTAL	**27.4**

V. CONCLUSION AND FUTURE WORK

In conclusion, the objective of this research is to create a proper presentation uploader and creator to ease the FYP students in UTP during their final presentation preparations. As the OPCAU system has provided a simple uploader for FYP student to upload their presentation slides into the system. All the functions can be access via login which means students can view the guidelines provided in the system in creating better presentation slides for their oral presentations. OPCAU system has several functions that can help minimize and avoiding the problems that will down grade student performance and credibility**.** The objective has being achieved and the research will give benefits to future student development process and course requirements.

The system OPCAU is developed as a result from the research of the project; therefore this system can be improved in terms of its performance and features. The prototype can be enhanced into final product that can be used anytime and anywhere. The OPCAU can be enhanced by broadening its scope of usage. Currently, the system is only meant to be used for creating presentation slides for FYP presentation. In near future, this system can be modified and enhanced to be used not only for FYP students but to others. For example, this system can also be used for foundation or undergraduate students which the system can help and ease them in creating presentations for them and also uploaded to the systems. This is because in every semester in UTP, students are requiring to develop project or assignment and most of the time; they need to do a presentation. This means they need to create a good presentation slides to impress the examiners or their respective lecturers.

In addition, the system can also be enhanced by adding and administrator tasks. The current prototype of the system only allows admin to manage the database and update student profile based on the request. So, for future system development, admin can manage the profile of the students and solved any inquiries. For instances, a password recovery managed by admin for particular students that forgot their passwords. This will also include functions to reset the previous passwords.

Furthermore, the system can be improvised by adding more function and features that suit the suitability of the system itself and the users. Some of the functions can be added are user able to download their uploaded or created slides and also they can edit their uploaded presentation slides on the system. More templates for the presentation will be added to give choices for user to create their presentations. Another suggestion is the users can present directly using the system such as by zooming functions. Thus, it will be much easier and convenience for the users to use the system. Apart from that, the prototype system is Web based as a final product. Therefore, it will be better if the system is able to develop as a mobile application and allow all users to access the system at anytime and anywhere they wished.

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